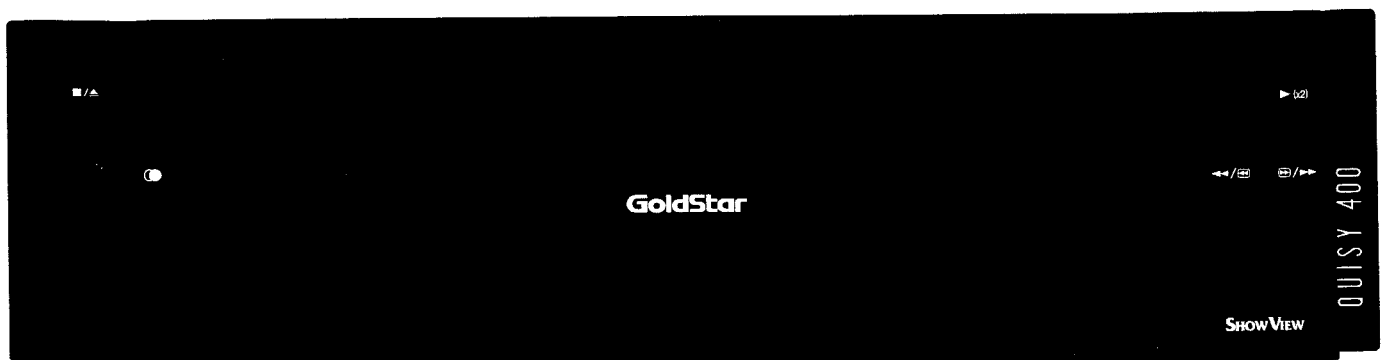


VHS-Video recorder

- HQ (High Quality) picture enhancement system that improves picture sharpness and detail
- Centre tape mechanism for high quality pictures
- Full function infra-red remote control handset
- Programmable 80 channel memory with voltage synthesised tuner
- ACMS (Automatic Channel Memory System) plus - the channels will be preset, sorted and memorized automatically.
- ACSS (Automatic Clock Setting System) - the clock will be set automatically by reading the present time and date from the teletext of the German time TV stations ARD or ZDF.
- 8 event/1 month programmable timer
- Built-in ShowView programming
- VPS - Video Programme System
- Self diagnosis function
- Recording and playback for 16:9 Wide-screen format
- Double speed playback
- Auto Power on and Play
- Automatic Rewind
- Logic & Jet Search
- VISS - VHS Index Search System
- Child Lock
- Auto Head Cleaner
- Still & Frame advance functions
- Real Time Counter & Remaining tape time display
- Quick Start function
- Digital Auto Tracking System
- Only functions for QUISY 400;
 - LP-Long Play-recording and playback
 - Shuttle Control & Variable Slow functions
 - PREMIERE Compatible



**Thank you for buying this GoldStar video cassette recorder
Model QUISY 400/300.**

Before using your video recorder you need to be familiar with the names of some of the buttons on the remote control handset (see OPERATING THE VIDEO RECORDER, pages 4 to 6), and you need to set up the video recorder so that it can receive the TV stations in your area and so that your TV set can receive pictures from it (see pages 10 to 11).

Installation**Power**

This Video Recorder operates on a mains supply of 100-240V ~, 50 Hz.

Service

Never remove the cover of the video recorder. There are no user serviceable parts inside. If it does not operate properly, unplug it and contact your dealer.

Precautions

For safe operation and satisfactory performance of your video recorder, keep the following in mind when selecting a place for its installation.

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top and bottom of the video recorder. Do not place the video recorder on the carpet because this will block the ventilation holes.
- Install the video recorder in a horizontal position only.
- Avoid locations subject to strong vibration.
- Do not place the video recorder near strong magnetic fields.
- Do not move the video recorder from a cold to a hot location or vice versa.

Moisture condensation

Under special conditions like moving your video recorder from a cold to a warm room, moisture condensation can build up on the head drum, one of the most crucial parts of the video recorder. In order to prevent in such case any damage to your video recorder HEAD DRUM, connect the video recorder power cord to the AC line, press the OPERATE button on and allow at least 2 hours for the video recorder to dry out.

CONDENSATION IS LIKELY TO OCCUR**WHEN:**

- The video recorder is moved from a cold room to a warm room or from outdoors to inside your home.
- A cold room is heated quickly.
- The humidity is very high.

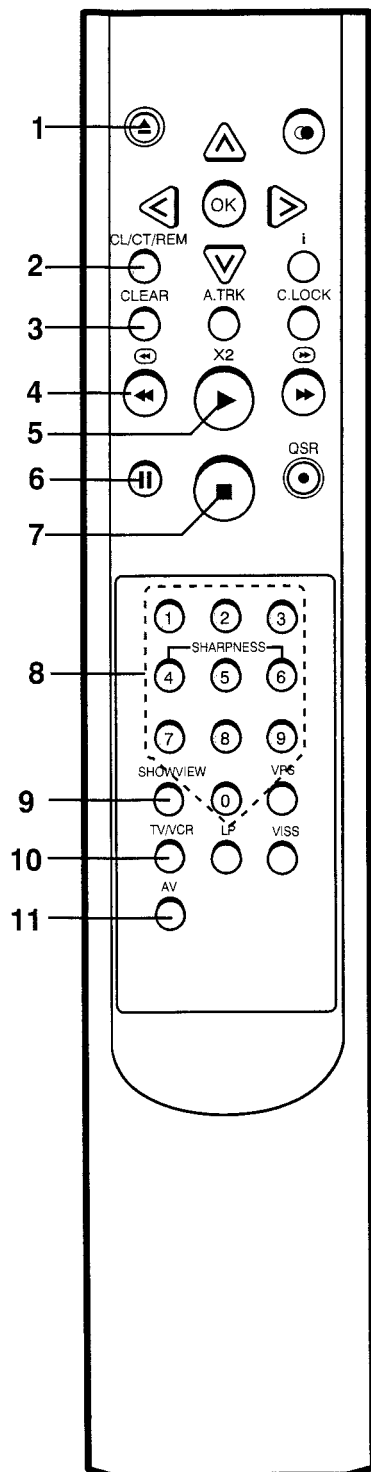
This product is conformed to EMC regulation 89/336/EEC and is therefore marked with the CE-label.

Operating the video recorder	4-6
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<ul style="list-style-type: none"> • Connecting the video recorder to your TV • Aerial/RF connections • A/V connection • Decoder connection (only for QUISY 400) 	
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Storing TV stations	10-13
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Programming the video recorder timer	21-24
<ul style="list-style-type: none"> • Introduction to Showview • ShowView programming on the TV screen • ShowView programming on the video recorder's display • Recorder timer programming using the on screen displays • Checking & clearing stored timer programmes • Overlapping timer programmes • Video Programme System (VPS) 	
Other features	25-29
<ul style="list-style-type: none"> • Introduction • On screen display of the time or tape counter, date, programme channel & operation mode of the video recorder. • Digital tape counter/remaining tape time • The memory stop facility • Tracking controls • The VHS index search system (VISS) • Automatic VISS marking • VISS scanning • VISS searching • Automatic playback • Automatic memory power shut-off • Automatic switch off • The child lock • 16:9 Compatibility (Wide-screen TV) • Self-Diagnosis 	
Copying (Rerecording)	30
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<ul style="list-style-type: none"> • General • Video/Audio 	
Before calling for service . . .	32
<ul style="list-style-type: none"> • Video head cleaning 	

The Remote Control Handset

This video recorder is designed so that almost all of its functions can be controlled from the REMOTE CONTROL HANDSET. This must have a "line of sight" to the sensor on the front of the video recorder. It must be within an angle of 30 degrees either side of the centre. The maximum operating distance is about 7.5m (25 feet).

Some functions can also be controlled with the controls on the FRONT PANEL of the video recorder.

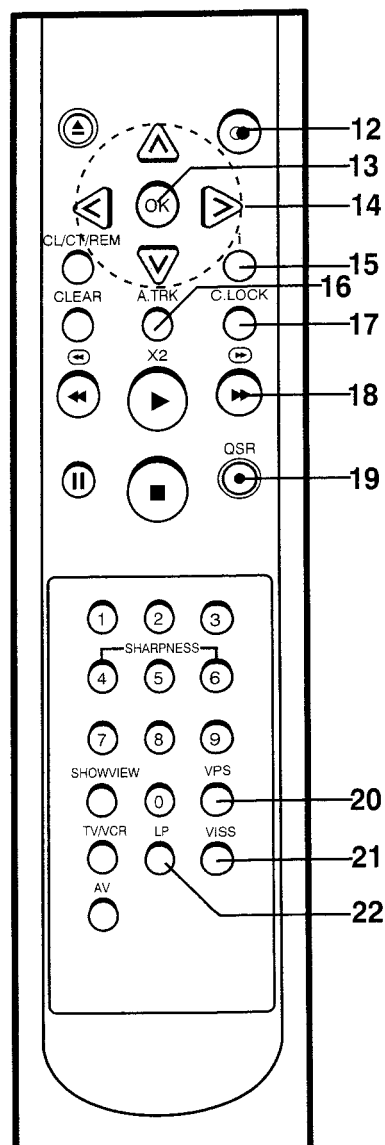


- 1 To eject a tape (see p 16).
- 2 **CLOCK/TAPE COUNTER/TAPE REMAINING**
To switch the display on the front panel of the video recorder between the current time, the tape counter and the amount of tape remaining (in hours and minutes) (see p 26).
This function will only operate when a tape is loaded.
- 3 **CLEAR**
To reset the tape counter to zero (see p 26).
- 4 To rewind the tape (see p 17).
To see reverse playback picture at high speed (see p 17).
- 5 To play the tape (see p 15).
To play the tape at double speed (see p 16).
- 6 Switches to still picture (see p 18), during recording to pause (see p 19).
- 7 To stop the tape.
- 8 **NUMBER BUTTONS:**
To select programme channels. To programme numeric information into On screen displays.
NOTE: The "4" and "6" buttons can be used to control the picture sharpness during playing back (see p 15).
- 9 **SHOWVIEW**
To display the programme menu for ShowView programming (see p 21 to 22).
- 10 **TV/VCR** (Only for QUISY 400)
Set this button to;
 - **VCR:** To monitor, view playback or view the video recorder's tuner.
 - **TV:** To watch TV or view another programme while recording one programme.
- 11 **AUDIO/VIDEO MODE**
To select the input source of a recording (see p 6).

Operating the video recorder

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- 12** ●
To switch the video recorder on and off.
- 13** OK
● Confirms menu selection (see p 9).
● Calls the on screen display (see p 25).
- 14** CURSORS (^ V < >)
^ V : ● During OSD menu, for moving the cursor, selection bar up or down.
● Switches one channel programme up or down.
● During playback, tracking control.
● During still playback, adjusting vertical tremble.
< > : ● During OSD menu, for moving the cursor to the left or right.
● Adjust the playback speed (see p 18) (Only for QUISY 400).
The cursor "<" button can be used to clear a data.
- 15** i
To display the on screen display (OSD) menu (see p 9).
- 16** AUTOMATIC TRACKING
To select automatic adjustment of the tracking (see p 26).
- 17** CHILD LOCK
To turn the CHILD LOCK function on/off (see p 28).
- 18** ►
To wind the tape forward (see p 17).
To see forward playback picture at high speed (see p 17).
- 19** ●/QSR
Used to record and set the QSR (Quick Set Recording) time (see p 20).
- 20** VPS
To set VPS for a timed recording.
- 21** VISS
To activate the VISS (VHS INDEX SEARCH SYSTEM) (see p 27).
- 22** TAPE SPEED SELECT (LP) (Only for QUISY 400)
To select the recording speed of the tape (see p 19).

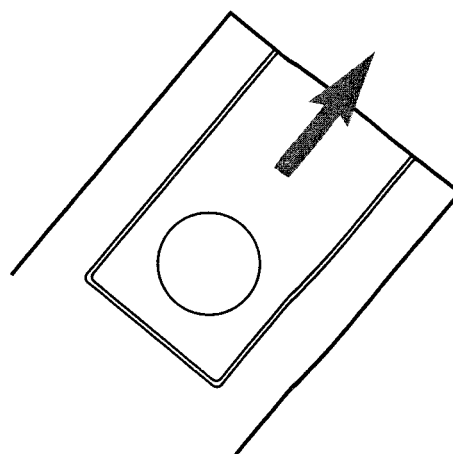


How to install batteries

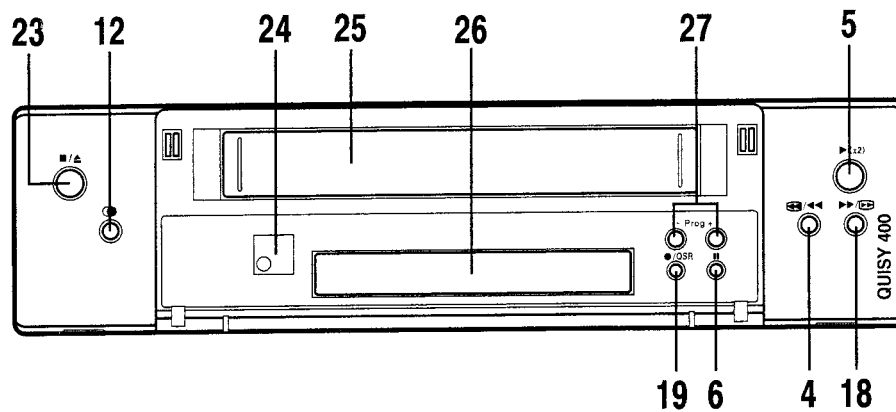
The wireless remote control is powered by two "AAA" size batteries.

- 1 Remove the battery compartment lid.
(Lift it up while pressing the tap forward.)
- 2 Load the new batteries with their polarities (⊕ and ⊖) aligned properly and replace the lid.

If you do not intend to use the remote control unit for a long period of time, remove the batteries and store them in a cool, dry place.



The front of the Video Recorder



23 ■ / ▲

To stop the tape, or eject it from the video recorder (see p 16).

12 ●

To switch the video recorder on and off.

24 REMOTE CONTROL SENSOR

To receive the signals from the remote control handset.

25 VIDEO CASSETTE COMPARTMENT

When a cassette is inserted loading is completed automatically.

NOTE: Power is turned on automatically when a video cassette is loaded. If the cassette has the record tab removed, the video will automatically begin to play the tape.

26 MULTI FUNCTION DISPLAY

Display of time, tape counter, tape remaining or other information about the status of the video recorder.

27 CHANNEL PROGRAMME SELECTORS (+/-)

Allows you to scan through memorized channels.

5 ► (X2)

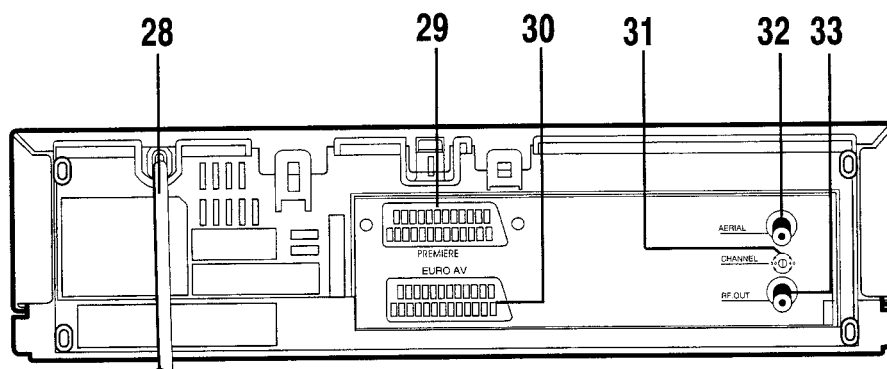
18 ►►

4 ◄◄

6 ||

19 ● /QSR

The back of the Video Recorder



28 MAINS LEAD

29 PREMIERE (Only for QUISY 400)

To connect a pay TV decoder (PREMIERE) (see p 7).

30 EURO AV

To connect the video recorder to your TV set or to another video recorder (see p 30).

For recording from EURO AV select "AV" with the "AV" button (see p 19).

31 VIDEO CHANNEL CONTROL

To select the video channel between 30 and 40 (with a screw driver) (see p 8).

32 AERIAL INPUT

Connect the external aerial to this terminal.

33 RF. OUT

Connect this terminal to the AERIAL terminal on the back of the TV, using the coaxial RF cable (supplied).

Installing your video recorder

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Important !

BEFORE YOU USE YOUR VIDEO RECORDER YOU MUST:

- 1 Connect the video recorder to your TV aerial and TV set. (described later on this page).
- 2 Set the tuner channels so that the video recorder can receive TV signals (see p 10 to 11).
When this has been done, the setting up of the video recorder is complete.

Connecting the video recorder to your TV

AERIAL/RF CONNECTIONS

- 1 Disconnect the aerial from your TV set and plug it into the socket marked "AERIAL" at the back of the video recorder.
- 2 Use the coaxial cable supplied to connect the aerial terminal on your TV set to the socket marked "RF.OUT" at the back of the video recorder.
- 3 Plug the video recorder into a mains wall socket.

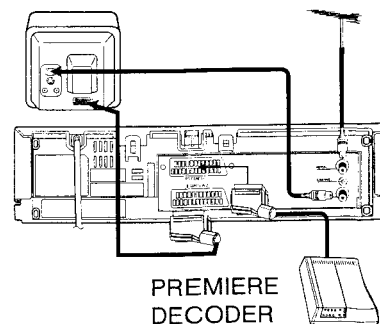
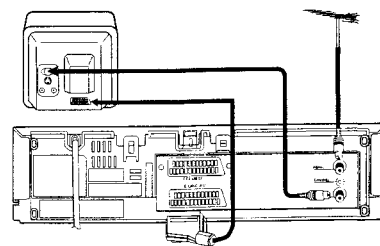
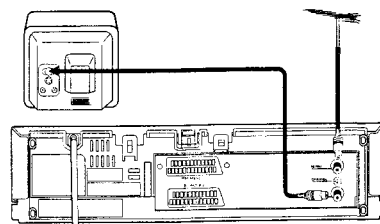
A/V CONNECTION

This video recorder and your TV set can also be connected with a EURO SCART cable (AV cable) (Obtainable from a TV dealer). This connection ensures the highest picture/sound quality.

DECODER CONNECTION (Only for QUISY 400)

Some TV stations transmit encoded signals which you can only see with a purchased or hired decoder. You can connect such a decoder (descrambler) to this video recorder.

Use an Euro-Scart leads to connect the decoder to the video recorder (PREMIERE).



Setting the VCR output channel

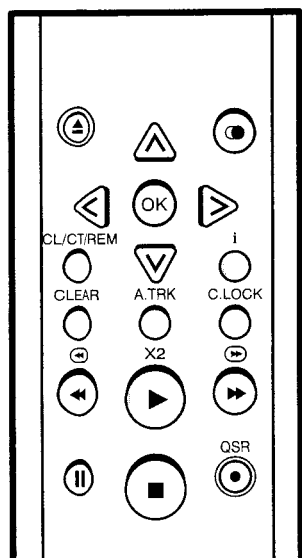
Your TV set receives the video recorder signal like another TV station. So you have to select a programme number for the video recorder.

Take care to select this programme number, whenever you control the video recorder, or watch a recording. Only if you have selected this programme number, which we call video programme number, you will see the picture from the video recorder on the screen.

If you connect a monitor or a TV set equipped with Euro Scart socket, this adjustment will not necessary. Consult the operating instructions of your TV set.

Connect the video recorder as described in the section on Connections (see on previous page).

Setting the output channel of the video recorder



1 SETTING THE VIDEO CHANNEL WITH PLAYBACK

- 1 The output channel of the video recorder is set at UHF channel 36.
- 2 Turn on the TV set and the video recorder.
- 3 Play any video cassette tape on your video recorder.
- 4 Select the correct channel (36) on your TV set.
And then you will see the picture being played in video recorder.
(Note - You will need to look at the instruction manual for your TV set if you do not know how to do this.)

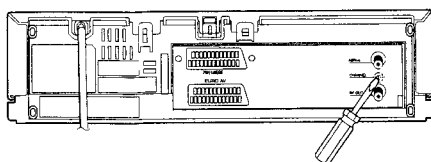
2 SETTING THE VIDEO CHANNEL WITH OSD (ON SCREEN DISPLAY)

- 1 Turn on the TV set and the video recorder.
- 2 Repeat above No. 4. And then you will see a blue background picture on the TV screen.
- 3 Store this channel in an unused programme number on your TV set.

3 CHANGING THE TRANSMITTER CHANNEL

If channel 36 is already occupied at your TV set, or if the picture is distorted, you can change the transmitter channel of the video recorder.

Select an undistorted channel between 30 and 40 on your TV set and store it. Use a small screwdriver to turn slowly the CHANNEL control on the rear of the video recorder, until you are satisfied with the picture quality.



On screen displays



A number of the features of this video recorder can be set and altered using the handset with On Screen Displays (menus) on the TV screen.

The Main menu

- 1 Switch on your TV set and video recorder by pressing the "●" button.
- 2 Press the "i" button to display the Main menu.
- 3 Press the cursor \wedge and \vee buttons to select the desired menu and press the "OK" button.
NOTE - After using the menus press the "i" button to remove menus from the TV screen.

TIMER PROGRAMME

Used to record a programme with the timer (see p 23).

TV STATION TABLE

Used to view stored TV stations or to set TV station information manually (see p 11).

ACMS PLUS

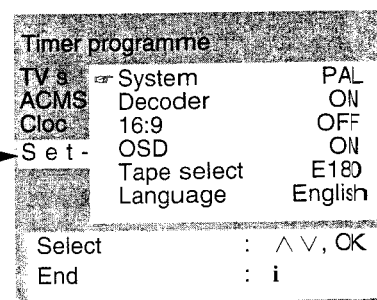
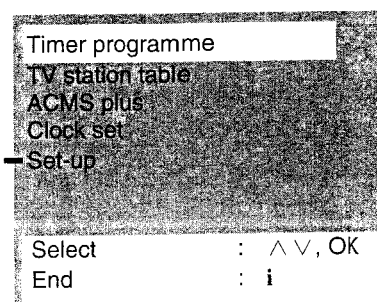
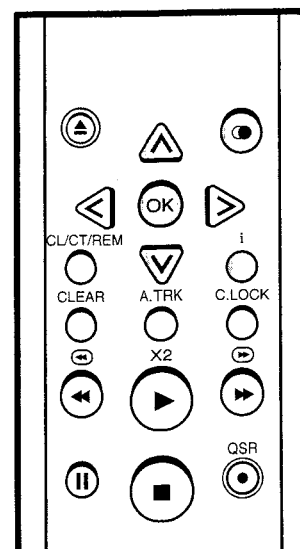
Used for automatic setting of the TV stations (see p 10).

CLOCK SET

To set the clock manually (see p 14).

SET-UP

- **SYSTEM (PAL → MESECAM)**
Select the colour system used for playback and recording (see p 18).
- **DECODER ON or OFF (Only for QUISY 400)**
To use PREMIERE Scart socket for the connection of a pay-TV decoder (see p 20).
- **16:9**
To select the aspect ratio of your TV.
"ON": for recording and playback with a 16:9 Wide-screen format recording.
"OFF": for recording and playback with a normal format.
"AUTO": for playing back wide-screen programmes as wide, normal programmes as normal (see p 29).
- **OSD (On Screen Display)**
Switches the on screen display OFF or ON (see p 25).
- **TAPE SELECT**
Used to select the tape length so that remaining tape time display is correct.
E180: Use for E-180, E-260 and E-300 tapes.
E240: Use for E-210 and E-240 tapes.
- **LANGUAGE**
Allows you to select the language of the on screen display.
Select the language you prefer by pressing the "OK" button several times. You can select among English, German and French.



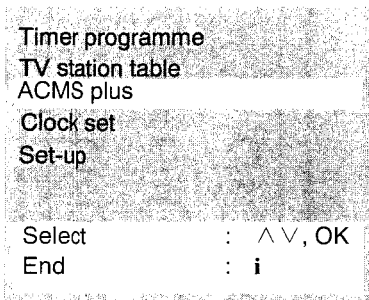
Up to 80 TV stations (80 channels) can be stored in the memory of this video recorder. These can be set automatically or manually.

Automatic tuning

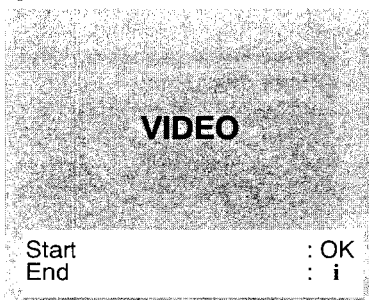
To carry out Automatic tuning:

- 1 Switch on the TV and the video recorder (with the "●" button).
- 2 Press the "i" button on the remote control handset. The menu will appear on the TV screen.
- 3 Use the cursor \wedge and \vee buttons to select "ACMS plus".
- 4 Press the "OK" button.
- 5 Press the "OK" button to start the automatic storing of the channels of the TV stations in your area.
While this is happening the clock (date & time) in the video recorder will be set automatically.
- 6 After finishing the storing, the video recorder will sort the stations.
Automatic channel tuning has been completed when the "TV station table" menu appears on the TV screen.
- 7 Press the "i" button to remove the menus from the TV screen.

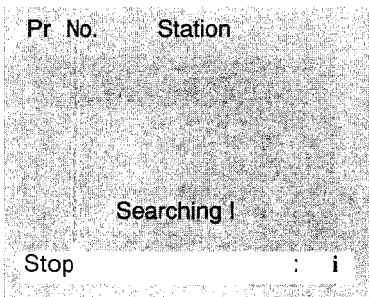
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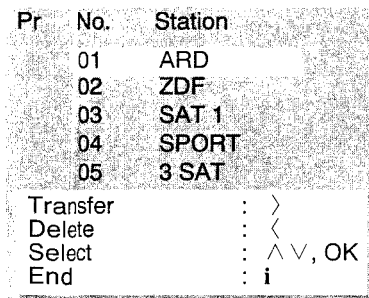
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6



Storing TV stations

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Manual tuning

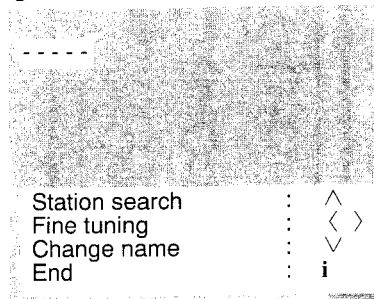
TV station Channel numbers and Station names can be stored manually.

To carry out manual tuning:

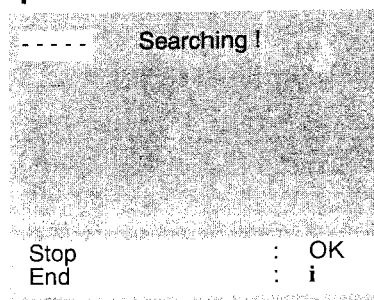
- 1 Press the "i" button on the remote control handset. The menu will appear on the TV screen.
- 2 Use the cursor ∇ button to select "TV station table" and press the "OK" button.
- 3 Use the cursor \wedge and ∇ buttons to search the programme number that you want to tune and press the "OK" button.
- 4 Press the cursor \wedge button to start manual station tuning.
 - Searching will stop when it locates a station.
 - If the station transmits VPS, the name will be added automatically.
 - To further stations, press the cursor \wedge button.
 - If you want to stop the station search, press the "OK" button.
- 5 If you need to manually change a station name, press the " ∇ " button once. The station name list will appear on the TV screen.
- 6 If the station name required is on the menu use the cursor \wedge and ∇ buttons to select it. Press the "OK" button. Go to step 9. If the name required is not on the menu go to step 7.
- 7 Press the cursor \rightarrow button to input the station name manually.
 - 1) Enter the first letter of the station name by repeatedly pressing the cursor \wedge and ∇ buttons.
 - 2) Now move the cursor with the \rightarrow to the next position and write in the next letter of the station name.
 - For corrections move back and forth with the \leftarrow and \rightarrow buttons.
 - 3) When you have the station name as required press the "OK" button. The "TV station table" menu will be displayed.

Note: If you don't want to change the station name, press the "i" button instead of "OK" button.
- 8 Store other stations, missing or incorrect station names using steps 3 to 7.
- 9 End the station storing by pressing the "i" button.

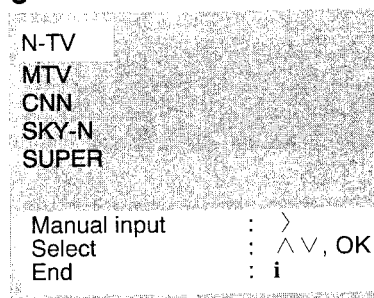
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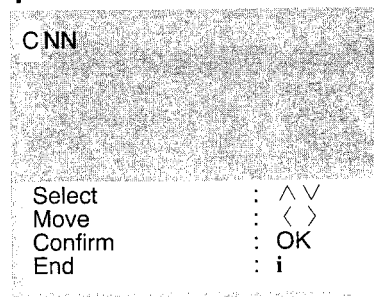
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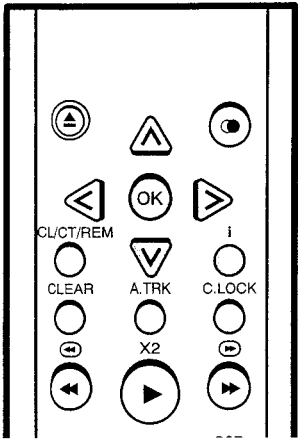


5



7





Moving the programme order of the "TV station table" menu

If you want to move the order of the TV stations you can easily do so as follows:

- 1 Press the "i" button on the remote control handset. The menu will appear on the TV screen.
- 2 Select "TV station table" with the cursor ^ and v buttons and press the "OK" button.
- 3 Move the cursor down or up with the cursor ^ and v buttons to select the programme that you want to transfer to another position in the menu (for example "Pr No. 03").
- 4 Press the cursor ">" button to select transfer.
- 5 Use the number buttons to enter the programme number to which you wish to transfer the selected programme (for example Pr No. 04").
- 6 Press the "OK" button.
The selected station will be moved to the new programme number. The original station and all the other programmes will be resorted automatically.
- 7 Move other stations, if you wish, by repeating steps 3 to 6.
- 8 Press the "i" button to remove the menus from the TV screen.

4

Pr	No.	Station
	01	ARD
	02	ZDF
	03	SAT 1
	04	SPORT
	05	3 SAT
Transfer : Pr 03 → 0 3		
Select : 0-9, OK		
End : i		

5

Pr	No.	Station
	01	ARD
	02	ZDF
	03	SAT 1
	04	SPORT
	05	3 SAT
Transfer : Pr 03 → 0 4		
Select : 0-9, OK		
End : i		

6

Pr	No.	Station
	01	ARD
	02	ZDF
	03	SPORT
	04	SAT 1
	05	3 SAT
Transfer : >		
Delete : <		
Select : ^ v, OK		
End : i		

Clearing stations from the "TV station table" menu

If you want to clear a TV station from the video recorder's store you can easily do so as follows:

- 1 Press the "i" button on the video recorder handset. The Main menu will appear on the TV screen.
- 2 Select "TV station table" and press the "OK" button to select.
- 3 Move the cursor down or up with the cursor ^ or v button to select the programme that you want to clear.
(for example station "Pr - 03")
- 4 Press the "<" button to delete. After a short while, the selected station will be cleared. The next following stations will be resorted automatically.
- 5 Clear other stations, if you wish, by repeating steps 3 and 4.
- 6 Press the "i" button to remove the menus from the TV screen.

Fine tuning

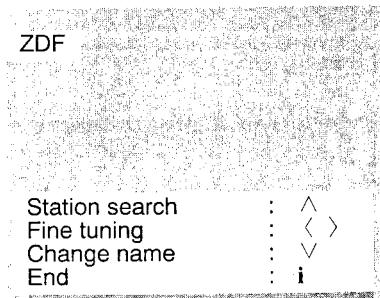
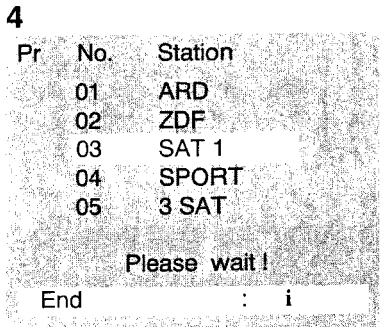
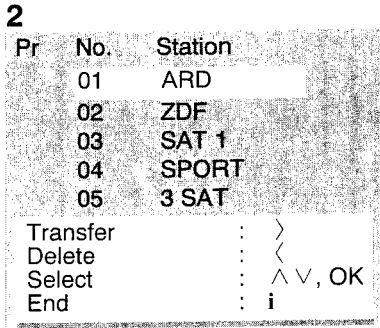
If the picture quality is poor, because TV reception is weak, it might be improved by manually tuning the video recorder as follows:

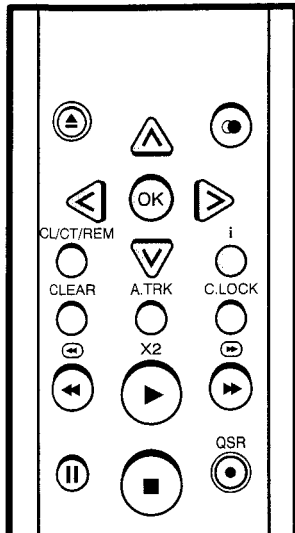
- 1 Press the "i" button on the video recorder handset. The Main menu will appear on the TV screen.
- 2 Select "TV station table" and press the "OK" button to select.
- 3 Move the cursor down or up with the cursor ^ or v button to select the programme that you want to fine tune.
- 4 Press the "OK" button.
- 5 Adjust for the best quality picture and sound with the cursor < and > buttons.
- 6 Press the "i" button twice to remove the menus from the TV screen.

Selecting stored TV stations

Stored TV stations can be selected in either of two ways.

- 1 Use the ^ and v buttons to move from one station to another.
- 2 Enter the programme number with the number buttons, to select a station directly. You can enter the stations 1 to 9 with the one digit only. The channel will be selected at once.





Setting the video recorder's clock

The clock in this video recorder gives the date (including the day of the week) and the time. It is set automatically during Automatic Channel Tuning. It is also continually checked against the date and time if this information is being broadcast as it is by all channels broadcasting a Teletext signal. It is, therefore, unlikely that you will need to alter the clock settings.

Whenever the video recorder receives a signal containing the date and time it adjusts itself to these signals. Therefore, the video recorder clock is likely to be always showing the correct time.

To manually alter the clock:

- 1 Press the "i" button. The Main menu appears on the TV screen.
- 2 Select "Clock set" with the cursor ^ and v buttons.
- 3 Press the "OK" button.
- 4 Use the number buttons to enter or alter the Hours, Minutes, Day, Month and Year (using the 24 hour clock).
The day of the week will appear automatically when you have entered the date.

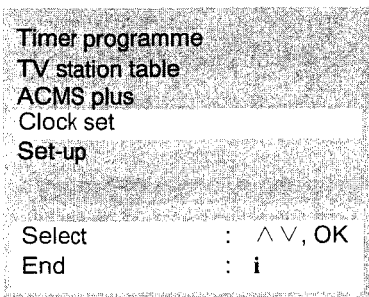
NOTE: Enter 1 as 01, 2 as 02 etc.

- Correct errors during inputting with cursor < and > buttons.

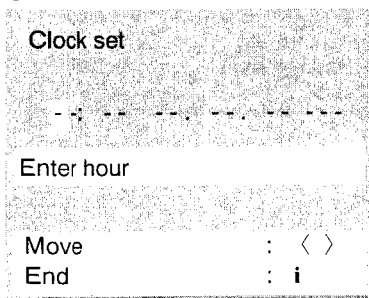
- 5 Press the "i" button to remove the menus from the TV screen.

The set time will appear on the video recorder's Display.

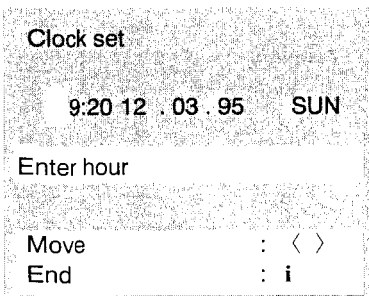
2



3



4



Using the VCR to play back a tape

GoldStar

NOTE - Loading and unloading of a video cassette is only possible when the video recorder is plugged into a power source.

Loading a video cassette

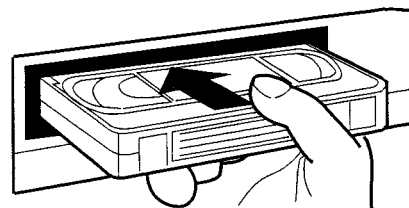
- 1 Turn on your TV set and video recorder.
- 2 Insert the cassette into the video recorder with the window side up and the arrow pointing away from you. Do not attempt to insert a cassette which is upside down or back to front.

GENTLY PRESS THE MIDDLE OF THE TAPE.

Video cassette loaded indicator - The \odot symbol is shown on the video recorder's display when there is a video cassette loaded in the video recorder.

Automatic switch - on - The video recorder is automatically switched on when a video cassette is inserted.

It is not necessary to switch on the video recorder, by pressing the "●" button, before inserting a video cassette.



Normal playback

- 1 Press the "▶ (×2)" button to start playing a tape (called Normal playback). "PLAY" will appear for a few seconds on the TV screen.

Automatic tracking - The video recorder will automatically adjust the tracking to give the best quality picture. A.TRK will appear on the video recorder's display while it is doing this.

Standard Play (SP) or Long Play (LP) tape - (LP - Only for QUISY 400)

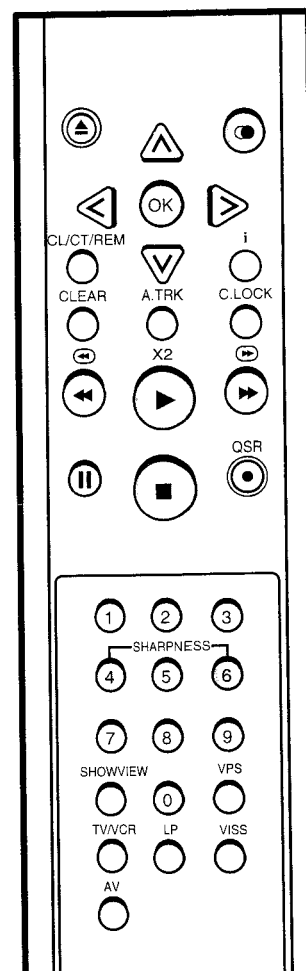
The video recorder will automatically recognise whether the tape has been recorded at normal speed (SP) or half-speed (Long Play - LP), and play it back at the correct speed. If it is a long play tape LP will be shown on the video recorder's display.

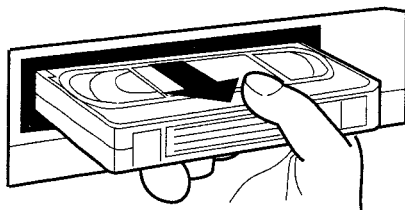
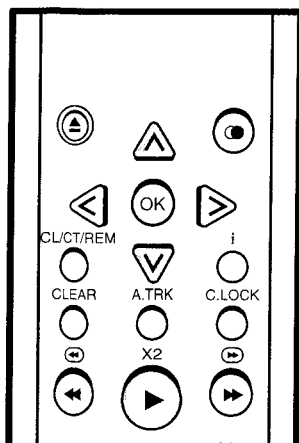
Automatic playback - If the video cassette has had its safety tab removed, so that it cannot be erased, then the video recorder will automatically start playing the tape.

- 2 Short interruptions of the playback up to 5 minutes can be made with the "||" button. Continue playback by pressing the "▶ (X2)" button.
- 3 End the playback with "■" button.
 - If the end of the tape is reached, the video recorder stops automatically, rewinds, stops, ejects the tape and switched off.

Picture sharpness adjustment

During playback you can adjust the "sharpness" of the picture by pressing the number 4 and 6 buttons.





Double speed playback

- 1 Press the "▶ (×2)" button during normal playback. The tape will play back at double speed and without sound.
- 2 Distortions in the picture can be eliminated by changing the tracking with the cursor "▲ and ▼" buttons.
- 3 Press the "▶ (×2)" button to return to playback at normal speed
- 4 End the playback with "■" button.

Unloading a video cassette

Press the "▲" button, on either the handset or the front panel of the video recorder. The cassette compartment will open and the video cassette will be partially ejected. "EJECT" will appear for a few seconds on the TV screen. It is not necessary to switch on the video recorder, by pressing the "●" button before ejecting a video cassette.

NOTE - It is advisable to remove a video cassette from the video recorder when not in use. Rewind and unload it.

Types of video cassette

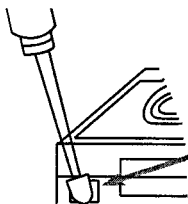
Use **VHS** tapes in this video recorder.

On SP (standard play) the maximum record and playback time is that given on the video cassette.

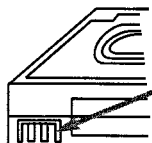
For example E-180 will record/play back for 180 minutes.

On LP (long play) the maximum record and playback time is twice that given on the video cassette (Only for QUISY 400).

For example E-180 will record/play back for 360 minutes.

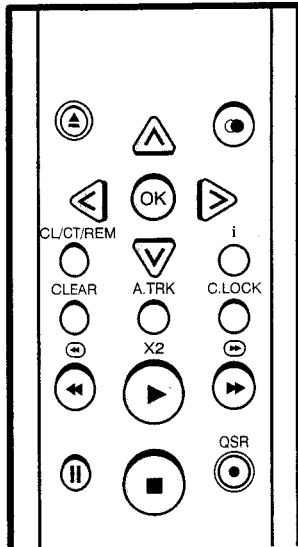


Accidental erasure prevention - If you do not wish to record on a tape, and hence erase what is already recorded on it, then remove the safety tab on the back edge of the video cassette.



Cover the hole with cellophane tape - It is possible to record on a video cassette from which the safety tab has been removed by covering the hole with cellophane tape.

Refer to the instructions included with the video cassette for more information.



Timer programme		
TV s	System	PAL
ACMS	Decoder	ON
Cloc	16:9	OFF
Set -	OSD	ON
	Tape select	E180
	Language	English
Select	: ^ v, OK	
End	: i	

Still picture playback

You can playback and advance a still picture as follows:

- 1 Press the "II" button during playing back. You see a still picture on the TV screen.
- 2 You can remove the vertical tremble with the cursor "^" and "v" buttons.
- 3 You can advance the still picture by pressing the "II" button. By repeatedly pressing this button the picture advances one frame at a time.
- 4 To switch off the still picture, press the "▶ (× 2)", or the "■" buttons.

Slow motion playback, Shuttle (Only for QUISY 400)

This video recorder is equipped with a slow motion and shuttle features.

- 1 During playing back or still picture press the cursor "<" or ">" button.
- 2 You can reach the following playback speeds:
fast review, review, -3Xplay, -play, -1/6 slow, -1/16 slow, -1/32 slow, still, 1/32 slow, 1/16 slow, 1/6 slow, play, 2Xplay, cue, fast cue.
- 3 If distortions can be seen in the picture, remove them with the cursor "^" and "v" buttons.
- 4 To switch off the slow motion, press the desired function, e.g. playback, search, still picture or stop.

The slow motion playback will only continue for about 3 minutes, after which the video recorder will return to normal playback mode, to avoid damage of the tape.

When using the special playback effects (double playback, logic, picture and jet search, still and slow motion playback) with a tape recorded in LP, there will be a loss of colour and there may be noise bars on the picture.

Selection of the colour system

Because your video recorder is equipped with dual colour standard, you can play and record in PAL and SECAM B/G.

You should select the colour system manually:

- 1 Press the "i" button.
- 2 Select the "Set-up" and press the "OK" button.
- 3 Select "System" with "^" and "v" buttons.
- 4 Use the "OK" button to switch between:
 - PAL : PAL recordings
 - MESECAM : Use for SECAM B/G recordings
- 5 Press the "i" button to remove the menus from the TV screen.

Introduction to the recording features

There are a variety of recording modes available to you on this video recorder.

- 1 You may record immediately, (a programme you may be watching), by turning the video recorder both on and off (see below).
- 2 You may record immediately for a set period of time of up to 9 hours. This is called Quick Set Recording (QSR). The video recorder will automatically turn itself off at the end of the QSR (see p 20).
- 3 You may record at a later time (up to 1 month from the present) using the built-in timer. Up to 8 of these automatic recordings may be set at the same time - provided, of course, that there is sufficient time on the video cassette.

There are two ways in which you can programme the video recorder for automatic recording.

1. You can use the ShowView feature, which is built into this video recorder (see p 21 to 22).
2. You may set the times manually, using either the on screen display (OSD)(see p 23).

NOTE - Ensure that the safety tab has not been removed from the video cassette on which you wish to record.

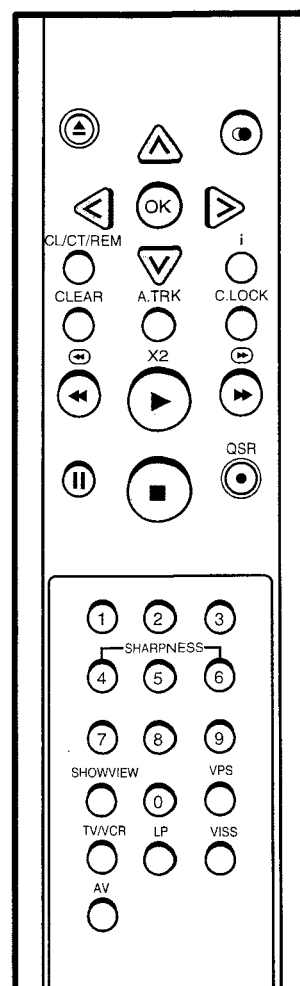
To record

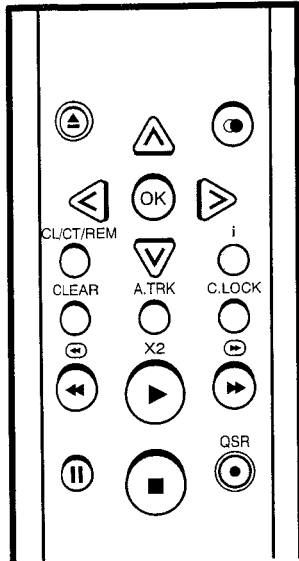
- 1 Switch on the TV set and video recorder.
- 2 Insert a video cassette with the window side up, and the arrow pointing away from you, or if a video cassette is already loaded switch on the video recorder by pressing the "●" button.
- 3 Select the programme channel with the number buttons or cursor "▲" and "▼" buttons.
- 4 Select LP with the "LP" button, if you want to record in long play mode (Only for QUISY 400).
- 5 Press the "●/QSR" button to start recording.
"RECORD" will appear for a few seconds on the TV screen.
"MARK" will appear on the video recorder's display.

The recording is being marked by the VISS (VHS Index Search System) function. This will enable you to quickly find the recording at a later date.

- 6 If you want to avoid recording unwanted scenes press the "||" button. "RECP" will appear for a few seconds on the TV screen. To continue recording press the "||" button again.
- 7 Press the "■" button to stop recording. "STOP" will appear for a few seconds on the TV screen.

NOTE - If you want to record from the EURO AV socket on the back of the video recorder, press the "AV" button to the "AV" mode, as shown by the display on the video recorder's display.





RECORDING ONE TV PROGRAMME WHILE WATCHING ANOTHER

You can record one programme while watching another by selecting the channel you watch on your TV set.

- 1 Start a recording by following steps 1 to 5 on previous page.
- 2 Select the TV station you want to watch with the programme channel selector on your TV set.

Immediate timer (QSR)

When making a recording you can set your video recorder to stop after a set period of time.

- 1 Press the "●/QSR" button to start a recording.
- 2 Press the "●/QSR" button several times until the desired recording time is shown on the video recorder's Display.

Each time you press this button the QSR time will be extended by 30 minutes. The maximum time that can be set is 9 hours.

When the QSR recording have been completed, the video recorder will stop and switch itself off.

- 3 To cancel a QSR recording, press the "●" or the "■" button.

Recording with decoder (Only for QUISY 400)

We have already described, how to connect a decoder for pay-TV stations like PREMIERE on page 7.

- 1 Select the programme number of the pay-TV station.
- 2 Press the "i" button and select the "Set-up" with the cursor "▲" and "▼" buttons.
- 3 Press the cursor "OK" button and select "Decoder" with the cursor "▲" and "▼" buttons.
- 4 Switch to "Decoder: ON" by pressing the "OK" button.
- 5 Press the "i" button to remove the menus from the TV screen.

Timer programme		
TV s	System	PAL
ACMS	Decoder	ON
Clock	16:9	OFF
Set -	OSD	ON
	Tape select	E180
	Language	English
Select	: ▲ ▼, OK	
End	: i	

Programming the video recorder timer

The timer allows you to record broadcasts automatically. Up to 8 recordings within one month can be programmed at the same time.

Introduction to ShowView

ShowView programming lets you set the video recorder to record programmes, by simply entering a ShowView Code. These ShowView Codes are published in TV listings in almost all newspapers and TV Guides. They can vary from one to nine digits and are usually with the programme name as shown in the sample page of a TV Guide.

The ShowView Codes contain all the information needed by the video recorder (programme start and stop date and time and programme number). It is easy to alter the information programmed into the video recorder by a ShowView Code if you wish to do so. For example you may wish to extend the stop time in case the programme is running late.

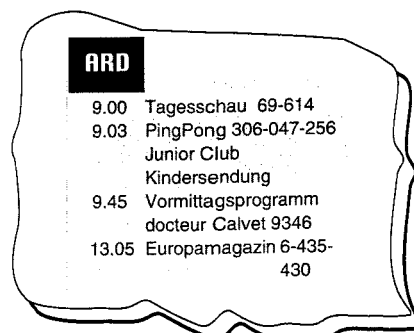
ShowView is a trademark applied for by Gemstar Development Corp. ShowView System is manufactured under license from Gemstar Development Corporation.

ShowView programming on the TV screen

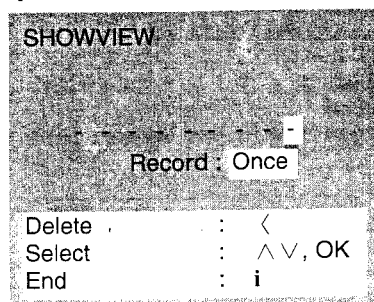
These new timer programming feature is very easy to use:

- 1 Press the SHOWVIEW button. The "SHOWVIEW" menu appears.
- 2 Select the recording type by repeatedly pressing the "^" and "v" buttons. It select between:
Once: To record a programme once only.
Weekly: To record a programme at the same time every week.
Daily: To record a programme every day (except Saturday and Sunday) at the same.
- 3 Use the number buttons to enter the ShowView number of the broadcast you want to record, exactly as it is shown in your TV magazine.
 - If you enter an incorrect number press the "<" button to erase it, and enter the correct number.
- 4 Press the OK button.
You will see the data of the selected broadcasts.
 - If "ERROR" or "Please check number" appears, you have to check the entering and repeat the procedure.
 - If "- -" is displayed, you have to enter the programme number of the station, you want to record from.
This will automatically be stored in an internal ShowView channel map.
 - If you want to record from the EURO AV switch with the "AV" button to "AV".
 - Activate or deactivate VPS with the "VPS" button (see p 24).
 - If you want to change the record record mode, press the "LP" button (Only for QUISY 400).

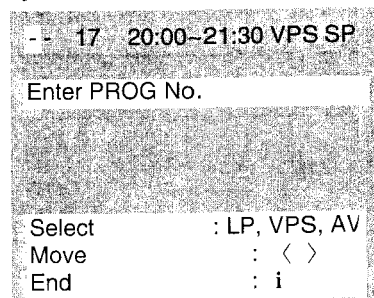
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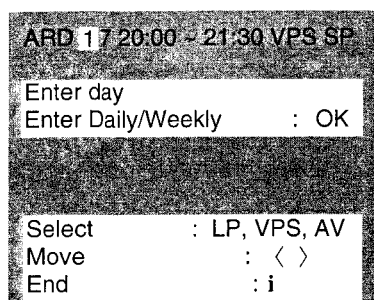
1



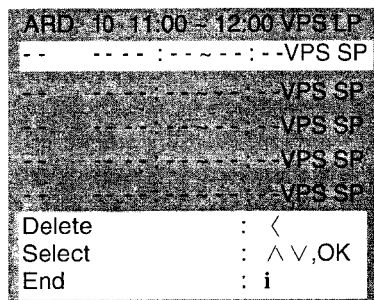
4



5



6



5 If you wish to change any of the settings as displayed you can do so. Move between them with the cursor < and > buttons. Use the number buttons to change the date and the time.


6 Finish your timer inputs with the "i" button.

A menu of the timer programmes set into the video recorder will be displayed on the TV screen.

- If "Please correct the data !" is displayed, you have entered a wrong data. Please correct the data.

7 Press the "i" button to remove the menus from the TV screen.

8 Make sure that there is a video cassette in the video recorder and turn the video recorder off with the "●" button.

The timer set  symbol is shown on the video recorder.

ShowView programming on the video recorder's display

You can also use the video recorder's display for ShowView programming.

1 Press the "SHOWVIEW" button. The "SHOWVIEW" appears on the video recorder's display.

2 Enter the ShowView number with number buttons.

3 Press the "OK" button.

If the video recorder has correctly received the data, "OK" appears in the video recorder's display.

Programming is now complete.

If you want to check the programme refer to page 24.

NOTES:

- If "- -" is displayed, you have to enter the programme number of the station, you want to record from. This will automatically be stored in an internal ShowView channel map. Press the "OK" button again.

- If "ERROR" appears in the video recorder's display, check the ShowView code, and setting the clock, and the timer programmes (1 to 8) have been preset. Press the "OK" button again.

1



2




3

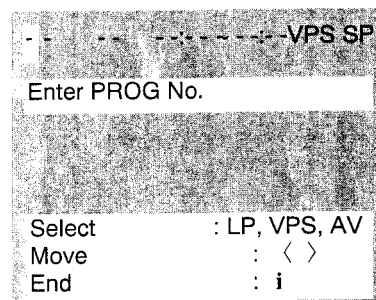


Recorder timer programming using the On Screen Displays

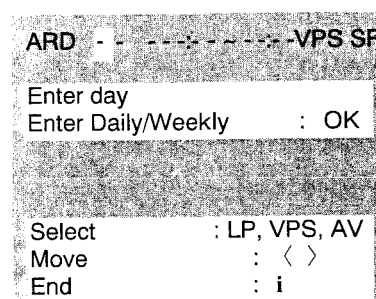
Without the ShowView code you need to enter the programme number, date, and the start and stop times of the programme you wish to record.

- 1 Press the "i" button, select "Timer programme" with the cursor \wedge , \vee buttons and press the "OK" button.
- 2 Press the "OK" button to enter the timer programming mode.
- 3 Select the programme number that you wish to record using the number buttons.
Programme number and dates 1 must be entered as 01, 2 as 02 etc.
 - If you want to record from the EURO AV, press the "AV" button to "AV".
 - If you want to change the record mode, press the "LP" button (Only for QUISY 400).
LP: for Long play.
SP: for Standard play.
 - Activate or deactivate VPS with the "VPS" button.
- 4 Enter the day using the number buttons.
If you want to change recording type:
 - 1) Press the "OK" button.
 - **Daily:** for daily recordings from Monday to Friday.
 - **Weekly** (SUN to SAT): for a weekly repeated recording.
 - 2) Select the recording type with the cursor \wedge and \vee buttons and select it with the "OK" button.
- 5 Enter the start and end times using the number buttons.
 - For setting programme times you must use the 24 hour clock.
 - Errors can be corrected with the \langle and \rangle buttons.
- 6 Finish your timer inputs with the "i" button.
A menu of the timer programmes set into the video recorder will be displayed on the TV screen.
 - If "Please correct the data !" is displayed, you have entered a wrong data.
Please correct the data.
- 7 Press the "i" button to remove the menus from the TV screen.
- 8 Make sure that there is a video cassette in the video recorder and switch the video recorder off with the "●" button.
The timer set  symbol is shown on the video recorder.

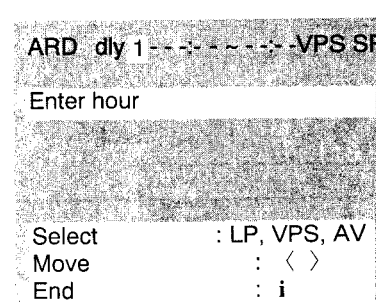
3



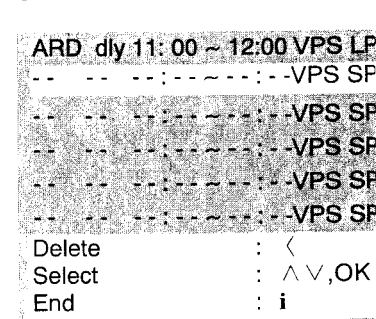
4

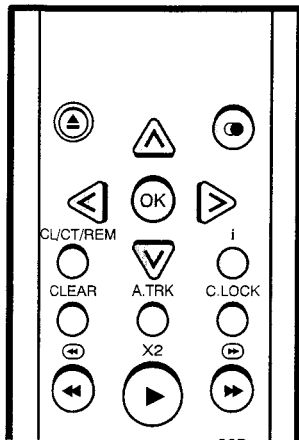


5



6



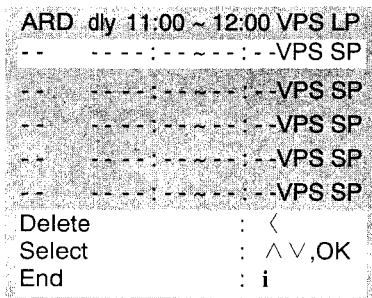


Checking and clearing stored timer programmes.

The stored timer programmes can easily be viewed on the TV screen, and can also be cleared if not wanted.

- 1 Press the "i" button.
The Main menu appears on the screen.
- 2 Select "Timer programme" with the cursor \wedge and \vee buttons and press "OK" button. The timer programmes list will be displayed on the TV screen.
- 3 If you wish to clear any of the programmes on the list, select it with the cursor \wedge and \vee buttons, and press the "<" button to clear.
- 4 If you wish to change any of the data for any of the programmes on the list, select it with the cursor \wedge and \vee buttons, and press the "OK" button. The timer menu will be displayed. Change the data as described on previous page.
- 5 Press the "i" button to remove the menus from the TV screen.

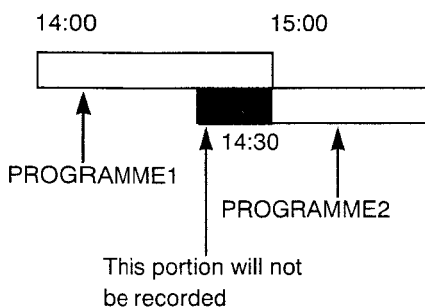
2



Overlapping timer programmes.

When timer programmes overlap, the programme which is already recording continues to its scheduled end time. Hence the beginning of the second programme will not be recorded.

NOTE - If you wish to stop a timer recording which has already started, press the "●" button on the front of the video.



Video Programme System (VPS)

The Video Programme System (VPS) system ensures that the TV programmes that you have programmed for timer recording will be recorded exactly from their beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start, or if the programme is extended beyond its scheduled time. Also, if a programme is interrupted, for example, if a news flash is inserted, the recording will also be interrupted automatically and resumed when the programme continues.

The VPS signal is broadcast by the TV station and this controls the timer in the video recorder.

VPS should be set ON for all timer recordings from TV stations broadcasting these signals. It should be set OFF for all timer recordings from TV stations that are not broadcasting these signals.

Introduction

This video recorder has a number of other features which make it easier and more convenient to use. Some of these are described in this section of the manual. Later sections describe the connection of the video recorder to other equipment.

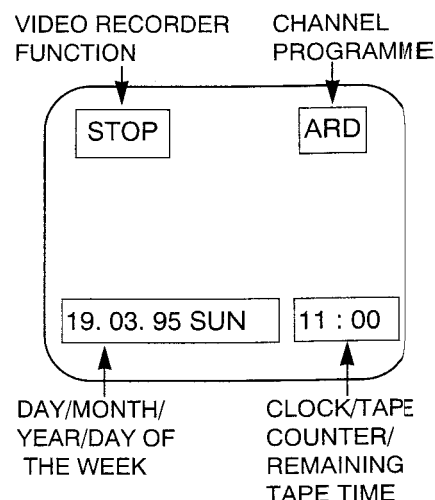
The features described here are:

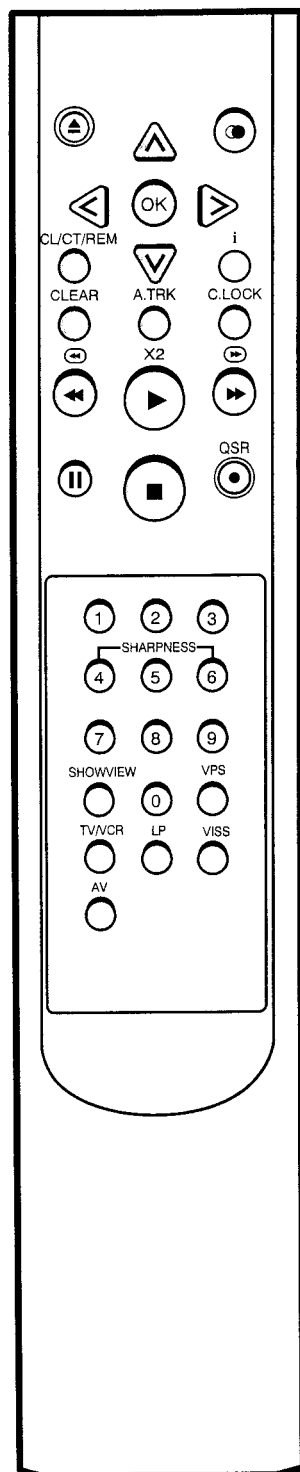
- 1 The On Screen Display of the time or tape remain or tape counter, date, programme channel and operation mode of the video recorder.
- 2 The Digital Tape Counter and Remaining Tape Time indicator.
- 3 The Memory Stop facility that can be used during rewind to stop the tape at a preset point.
- 4 The VISS (VHS Index Search System) to help you find the beginning of each recording on a video tape easily and quickly.
- 5 The tracking control that optimises the picture quality.
- 6 The Automatic Playback facility which plays back a tape, rewinds and ejects it and switches off the video recorder.
- 7 Automatic Memory Power Shut Off when a video cassette is rewound.
- 8 Automatic Switch Off when the TV station stops broadcasting.
- 9 A Child Lock facility so that the video recorder can be controlled only from the handset.
- 10 The 16:9 wide-screen recording and playback.
- 11 Self-diagnosis.

On Screen Display of the time or tape counter, date, programme channel and operation mode of the video recorder.

When the "OK" button is pressed, a display occurs on the TV screen of the current time or the tape counter or the remaining tape time, the date, year and day of the week, the programme channel and the operation mode of the video recorder. After three seconds this display will disappear, if the "OK" button is pressed twice in quick succession the clock display will remain on the TV screen. Pressing the "CL/CT/REM" button will change this display to either the Tape Counter or the remaining Tape Time display. Press the "OK" button again to remove the display from the TV screen.

If a recording is taking place these On Screen displays will not be recorded onto the tape.





Digital Tape Counter/Remaining Tape Time

The Digital Tape Counter and Remaining Tape Time can be displayed on the video recorder's display instead of the time by repeatedly pressing the "CL/CT/REM" button.

The Digital Tape Counter gives you the relative positions of recordings on the tape. If you set the counter to 0:00:00 at the beginning of a tape, you can note the counter reading at the beginning of each separate recording.

To set the counter to 0:00:00 press the "CLEAR" button.

The Remaining Tape Time, gives the time remaining on the tape in the mode currently set (i.e. standard play (SP) or long play (LP) (LP-Only for QUISY 400).

The memory stop facility

Memory Stop automatically stops a tape when the tape counter is 0:00:00. This feature may be used to return the tape to a preselected position immediately after making a recording, or to repeatedly playback a portion of a tape.

- 1 Press the "CL/CT/REM" button to set the display to the counter.
- 2 Before playback or recording, press the "CLEAR" button. The counter will read 0:00:00.
- 3 Begin the playback or recording.
The tape counter gives the actual time in hours, minutes and seconds.
- 4 Press the "■" button when playback or recording is complete.
- 5 Press the "⏮" button. The tape will rewind and automatically stop when the counter returns to 0:00:00.

Tracking Controls

Tracking distortions show up as streaks or an unstable picture. This video recorder can set the tracking automatically. You can also set the tracking manually if you need to do so.

Automatic tracking - The automatic tracking adjusts the tracking to playback a tape with the optimum picture quality. As soon as you start to playback a tape the tracking will be adjusted if necessary.

A.TRK is shown on the video recorder's display.

Manual tracking - If the quality of the recording is poor, or if the tapes are damaged, the automatic tracking will not be able to work correctly. In these cases you will have to remove tracking distortions manually.

You can adjust the tracking during playback with the cursor "▲" and "▼" buttons. Press them repeatedly until the distortions have been eliminated.

You can switch on the automatic tracking again after using the manual tracking feature by pressing the "A.TRK" button. When you change a video cassette, the automatic tracking will always be switched on again.

The VHS Index Search System (VISS)

VISS allows you to find the beginning of each recording on a tape easily and quickly. The video recorder automatically puts an index mark on the tape whenever you start a recording, and the VISS searches for these index marks.

AUTOMATIC VISS MARKING

At the beginning of each recording, a VISS mark is recorded automatically on the tape. This is indicated by MARK appears on the video recorder's display.

VISS SCANNING

A VISS scan gives you a quick overview of the recordings on the video cassette.

To carry out a VISS scan:

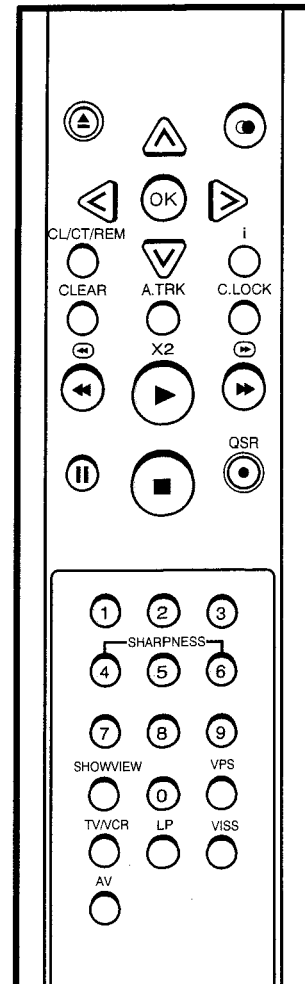
- 1 Insert the video cassette.
- 2 Whilst the video recorder is on stop press the "VISS" button.
- 3 Press the "◀" or "▶" button to fast forward or rewind the tape. "SCAN" is shown on the video recorder's display.
- 4 The tape winds on to the next VISS mark, switches to playback for a short time, so that you can view the tape at that point, and then winds on to the next VISS mark.
- 5 You can switch off the VISS scan at any time by pressing the "▶ (X2)" button or "■" button.

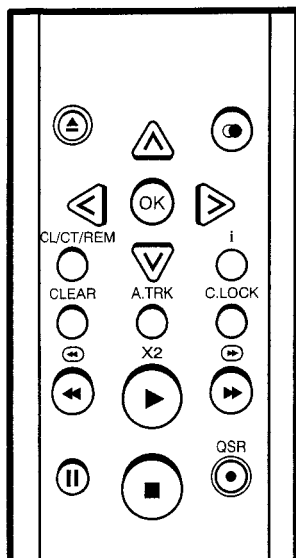
VISS SEARCHING

A VISS search is very similar to a VISS scan. Here you enter the desired mark with the number buttons. For example, if you want to find the fifth mark after (on fast forward) or before (on rewind) the present tape position, you enter 05. The VISS marks are not numbered, but the video recorder counts the marks during the winding and will switch to playback as soon as the entered number is reached.

To carry out a VISS search:

- 1 Insert the video cassette.
- 2 Whilst the video recorder is on stop press the "VISS" button.
- 3 Use the number buttons to enter the number at which mark the playback is to start.
- 4 Press the "◀" or "▶" button to fast forward or rewind the tape.
- 5 The tape winds on to the requested VISS mark, and the video recorder switches to playback.





Automatic Playback

Automatic Playback is a very convenient automatic action of this video recorder. It occurs whenever you insert into the video recorder a video cassette from which the safety tab has been removed (e.g. a video cassette which you have hired).

Automatic Playback carries out the following procedures:

It automatically switches on the video recorder's power and starts to playback the tape.

At the end of the tape, it automatically rewinds.

The tape is ejected automatically.

The video recorder switches itself off.

Automatic Memory Power Shut-Off

This feature of the video recorder enables you to initiate switching off the video recorder during tape rewind. Hence you do not have to wait until a tape has rewound before you can switch the video recorder off.

To activate Automatic Memory Power Shut Off press the "●" button during tape rewind. The tape will rewind to the beginning and the video recorder will switch itself off.

Pressing any of the control buttons (e.g. "●" or "▶(×2)") after setting Automatic Memory Power Shut Off will cancel it.

Automatic Switch Off

The video recorder will turn itself off after 8 minutes when not receiving a TV signal. This will occur when TV broadcasts have finished.

The Child Lock

The control buttons on the front of the video recorder are inoperative. The video recorder can be controlled only from the handset.

- 1 Press the "C.LOCK" button. "LOCK ON" appears on the video recorder's Display.

The control buttons on the front of the video recorder are inoperative (except for STOP/EJECT). The video recorder can be controlled only from the handset.

If any of the other controls on the video recorder are pressed "LOCK ON" appears on the video recorder's Display.

- 2 To switch off the locking, press the "C.LOCK" button again. "LOCK OFF" appears on the video recorder's Display.

Other features

16:9 Compatibility (Wide - screen TV)

This video recorder can be recorded and played back the 16:9 wide aspect ratio programmes.

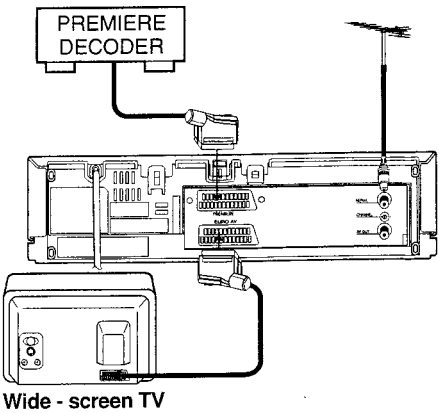
Select the required position in the "Set up" menu as described on page 9:

To record in a wide-screen format, you have to set to "16:9 ON", or if you set to "16:9 OFF" the video recorder will be recorded in normal format.

When you set to "16:9 AUTO", the video recorder will be automatically played back the wide-screen programmes as wide, the normal programmes as normal.

NOTE:

- When the picture disappears on the TV screen while playing back a 16:9 programme or recording in 16:9 format, set the TV to "AV" mode.

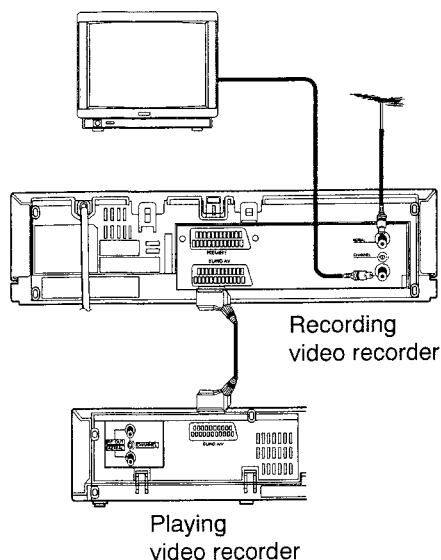


Self-Diagnosis




This function informs you of an error messages for solving the problems more easily. These error messages will be shown on the video recorder's display or on the TV screen.

STATUS OF DISPLAY	SOLUTION
PROTECTED	Insert a cassette with it's safety intact.
SEE CABLE	Connect the video recorder to your TV aerial and TV set.
Dust on the Heads!	Try to clean the video head.

Copying (Rerecording)



With this video recorder you can make recordings from an external source, such as copying from another video recorder or camcorder. To do this you will need an EURO Scart cable.

- 1** A second video recorder (for tape copying) should be connected to the EURO AV Scart socket on the back.
- 2** Insert an empty cassette into this video recorder and if you are copying another tape insert it into the second video recorder.
- 3** Set the "AV" mode for recording video recorder with the "AV" button on the remote control. "AV" indicator will be displayed on the display.
- 4** Set the tape speed with the LP button at the recording video recorder (Only for QUISY 400).
- 5** Start the playback at the playing video recorder and then start the record with the  button on the remote control or at the video recorder.
- 6** Short interruptions can be made with the  button on the video recorder, e.g. to cut scenes.
To continue recording, press this button again.
- 7** End copying with the  button and turn all devices off.

COPYRIGHT LAW

Unauthorized recordings of copyrighted television programmes, films, video cassettes and other materials infringe the right of copyright owners and be contrary to copyright laws.

GENERAL

Power	:	100-240V~, 50Hz
Power consumption	:	Approx. 20 watts
Video recording system		
QUISY 400	:	Double azimuth 4 heads, helical scanning system
QUISY 300	:	Rotary 2heads, helical scanning system
Tape speed	:	23.39 mm/sec (SP mode)/ 11.69 mm/sec (LP mode: Only for QUISY 400)
Tape format	:	Tape width 1/2" (12.7 mm high density VHS tape)
Maximum recording time	:	4 hours in SP mode/8 hours in LP mode (with E-240 tape)
Rewind time	:	Approx. 150 sec. (with E-180 tape)
Dimensions (W×H×D)	:	14.2"×3.6"×11.8" (360×92×300 mm)
Weight	:	9.7lbs. (4.4 kg)
Operating temperature	:	41°F-95°F (5°C-35°C)
Operating humidity	:	Less than 80 %
Timer	:	24 hours display type

VIDEO

Television system	:	CCIR standard (625 lines, 50 fields) PAL/SECAM colour signal
Recording format	:	PAL/MESECAM
RF reception	:	PAL/SECAM (B/G)
RF OUT	:	PAL G/SECAM G
Input level	:	VIDEO IN (Scart type) 1.0 Vp-p, 75 ohm, unbalanced
Output level	:	VIDEO OUT (Scart type) 1.0 Vp-p, 75 ohm, unbalanced
Signal to noise ratio	:	More than 43 dB
RF modulator	:	UHF channels 30-40 (adjustable)

AUDIO

Input level	:	AUDIO IN (Scart type) 0 dBm, more than 10 Kohm
Output level	:	AUDIO OUT (Scart type) 0dBm, less than 1 Kohm
Audio track	:	Mono track
Audio frequency response	:	100 Hz-10 kHz (-6/+3)
Audio signal to noise ratio	:	More than 43 dB

※ Design and specifications are subject to change without notice.

Please check to see if any problem which you may have with your video recorder is described here before taking it for service or calling a service engineer.

Problem

No mains power to the video recorder

TV programmes cannot be recorded

A timer recording does not take place

AUTO PLAY does not work

There is no picture on playback, or it is noisy and streaky

The top of the playback picture is unstable

Video cassettes cannot be inserted

Possible solution?

- Is the video recorder plugged into the mains?
- Is the mains supply on and switched on?
- Can you get a picture on the TV screen?
If are not the aerial and RF lead connected?
- Are the TV channels properly tuned in?
- Has the safety tab been removed from the video cassette to prevent recording?
- Is "●" off?
(Is the Timer symbol showing in the display?)
- Were the recording start and end times set correctly?
- Are the timer settings in the timer menu?
- Was the power interrupted after setting the timer?
If so the time setting will be erased and timer recordings will not take place.
- Has the safety tab been removed from the video cassette?
- Are the TV channels properly tuned in?
- Try another video cassette.
- Is the TV set tuned to the RF output channel of the video recorder?
- Try a different RF output channel on the video recorder.
- Can you minimise the noise bars to an acceptable level with the "A.TRK" or "▲ and ▼" buttons?
- Is the video cassette damaged? Try another one.
- Adjust the horizontal hold control on you TV set.
- Is the cassette compartment empty?
- Are you trying to insert the cassette the right way round?

Video Head Cleaning

- Whenever a video cassette is inserted into or ejected from this video recorder the video head is automatically cleaned.
- Therefore additional head cleaning should not be necessary. However dirt accumulating on the head after a long period can cause the playback picture to become blurred or broken up.
- High quality video cassette tapes will not normally deposit dirt onto the video head, but old or damaged tapes might.

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